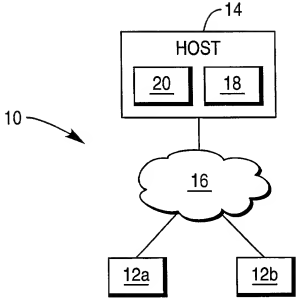
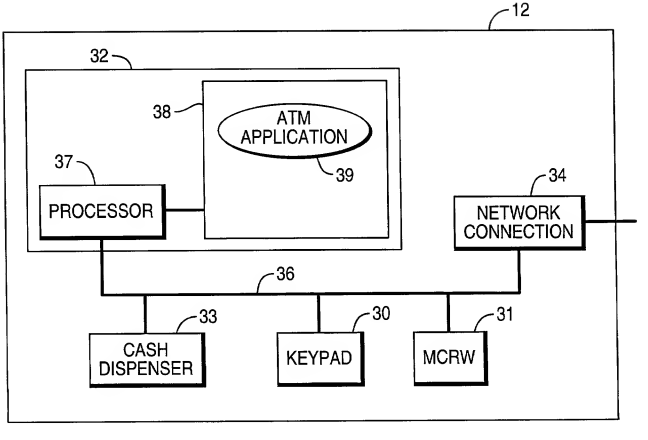

14
HOST
20
18
10
16
12a
12b

FIG. 1

FIG. 2


12
32
38
ATM APPLICATION
39
37
PROCESSOR
34
NETWORK CONNECTION
36
33
30
31
CASH DISPENSER
KEYPAD
MCRW

10020F*22100041

FIG. 3

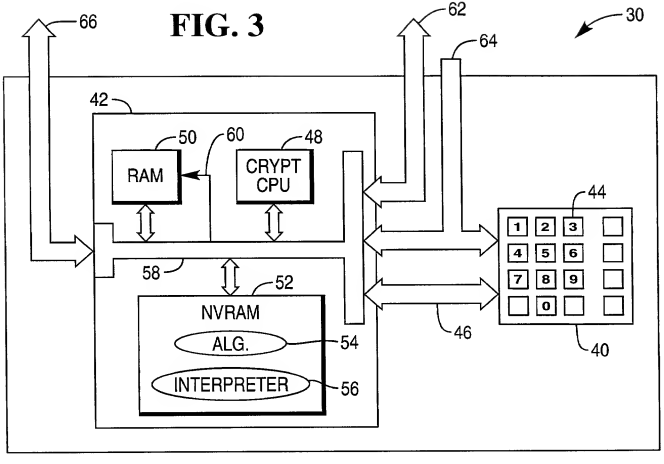


FIG. 5

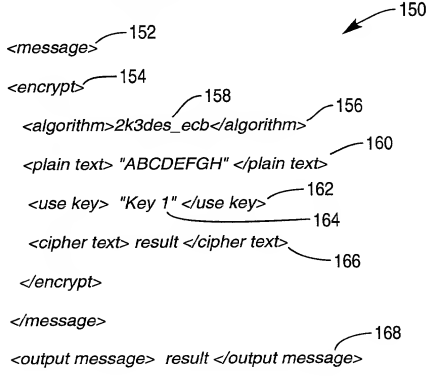


FIG. 4

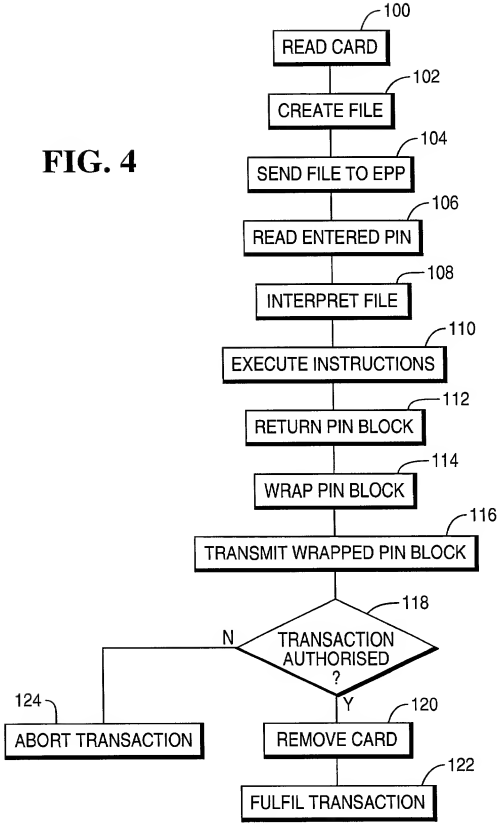

100
READ CARD
102
CREATE FILE
104
SEND FILE TO EPP
106
READ ENTERED PIN
108
INTERPRET FILE
110
EXECUTE INSTRUCTIONS
112
RETURN PIN BLOCK
114
WRAP PIN BLOCK
116
TRANSMIT WRAPPED PIN BLOCK
118
TRANSACTION AUTHORISED ?
N
Y
124
ABORT TRANSACTION
120
REMOVE CARD
122
FULFIL TRANSACTION

FIG. 6

180
<message>
<encrypt>
<algorithm>2k3des_ecb</algorithm>
<plain text> "ABCDEFGH" </plain text>
<use key> "Key 1" </use key>
<cipher text> result 1</cipher text>
182
</encrypt>
<encrypt>
<algorithm>2k3des_ebc</algorithm>
<plain text> "IJKLMNOP" </plain text>
<use key> "Key 2" </use key>
<cipher text> result2 </cipher text>
184
</encrypt>
<xor> result1,result2, result </xor>
186
</message>
<output message> result </output message>
188

10520E "22400T

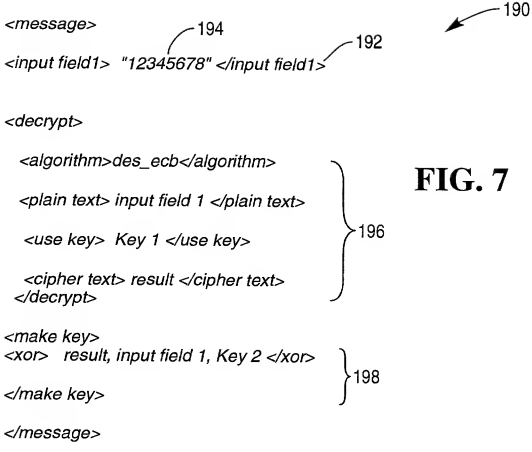


FIG. 7

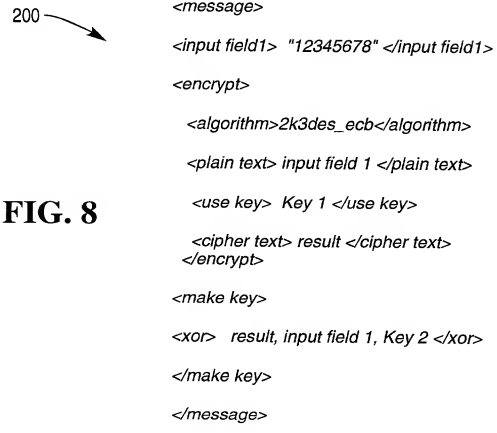


FIG. 8